

CLAIMS

1. A turbine motor for a pneumatic tool,
comprising:

5 a casing, surrounding a chamber, with an air
inlet and an air outlet being attached to said casing;

a rotor, disposed inside said chamber,
performing a rotational movement driven by compressed
air from said air inlet; and

10 an axis, carrying said rotor, having a rear
end borne by said casing and a front end passing
through said casing, from which torque is taken.

2. The turbine motor for a pneumatic tool
according to claim 1, wherein a stator is inserted
15 between said rotor and an inner wall of said casing.

3. The turbine motor for a pneumatic tool
according to claim 2, wherein said stator has a
plurality of stator blades.

4. The turbine motor for a pneumatic tool
20 according to claim 2, wherein said stator is radially
oriented and placed opposite said air inlet.

5. The turbine motor for a pneumatic tool
according to claim 3, wherein said stator is radially
oriented and placed opposite said air inlet.

25 6. The turbine motor for a pneumatic tool
according to claim 2, wherein an air whirling device
surrounds said stator.

7. The turbine motor for a pneumatic tool
according to claim 1, wherein in said chamber a shield
30 and an outlet passageway are placed along airflow
towards said stator.

8. The turbine motor for a pneumatic tool according to claim 1, wherein said axis has a plurality of bearings, so that said axis and said rotor are borne inside said shield of said rotor.

5 9. The turbine motor for a pneumatic tool according to claim 7, wherein said axis has a plurality of bearings, so that said axis and said rotor are borne inside said shield of said rotor.

10 10. A turbine motor for a pneumatic tool, comprising:
a casing, surrounding a chamber, with an air inlet and an air outlet air being attached to said casing;
a rotor, disposed inside said chamber,
15 performing a rotational movement driven by compressed air from said air inlet;
an axis, carrying said rotor, having a rear end borne by said casing and a front end passing through said casing, from which torque is taken;
20 a rear casing, placed at a rear end of said casing, closely surrounding said rotor and blades thereof; and
an air direction adjusting knob, placed close to said air inlet and allowing, by an axial or an
25 angular movement, to switch directing of incoming compressed air onto said rotor between forward and reverse directions.

11. The turbine motor for a pneumatic tool according to claim 10, wherein a valve is installed at

said air inlet, allowing to switch incoming airflow on and off.

5 12. The turbine motor for a pneumatic tool according to claim 3, wherein said plurality of stator blades have adjustable orientations.

 13. The turbine motor for a pneumatic tool according to claim 3, wherein said plurality of stator blades are turnably set on a plurality of blade supports.

10 14. The turbine motor for a pneumatic tool according to claim 12, wherein said plurality of stator blades are turnably set on a plurality of blade supports.

15